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EXAMINER

DAVIS, TEMICA M

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Please find below and/or attached an Office communication concerning this application or proceeding.

24

Art Unit: 2681

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

2. Claims 1-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Agrawal et al (Agrawal), U.S. Patent No. 6,628,943.

Regarding claim 1, Agrawal discloses in a data communication network for supporting mobile users, a method of operating a mobile control function, said method comprising: exchanging information with a mobile station via a radio access network according to a radio access network protocol (col. 5, lines 40-55, col. 7, lines 9-41); exchanging call control information with a call agent associated with a call of said mobile station (col. 7, line 42-col. 8, line 40); and maintaining connection state information for said mobile station while said mobile station is handled via said radio access network (col. 8, lines 41-50).

Art Unit: 2681

Regarding claim 2, Agrawal discloses the method of claim 1 further comprising: upon receipt of a handoff request from said radio access network, transferring responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).

Regarding claim 3, Agrawal discloses the method of claim 1 wherein exchanging call control information comprises exchanging call control information via an IP network (col. 18, lines 37-55).

Regarding claim 4, Agrawal discloses in a data communication network for supporting mobile users, a method of operating a call agent, said method comprising: exchanging call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, lines 19-41); and maintaining call state information for said mobile station (col. 8, lines 41-50).

Regarding claim 5, Agrawal discloses the method of claim 4 further comprising: upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, exchanging call control information with said second mobile control function; continuing to maintain call state information for said mobile station while said second mobile control function maintains connection state information for said mobile station (col. 18, lines 37-55).

Art Unit: 2681

Regarding claim 6, Agrawal discloses the method of claim 4 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Regarding claim 7, Agrawal discloses the method of claim 4 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 8, Agrawal discloses the method of claim 4 wherein exchanging call control information comprises exchanging call control information via an IP network (col. 18, lines 37-55).

Regarding claim 9, Agrawal discloses for use in a data communication network for supporting mobile users, a computer program product for operating a mobile control function (col. 10, lines 7-62; figure 6), said product comprising code that causes a processor to exchange call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, lines 19-41); code that causes said processor to maintain call state information for said mobile station (col. 7, line 42-col. 8, line 40); and a computer-readable storage medium that stores the codes (figure 6).

Regarding claim 10, Agrawal discloses the computer program product of claim 9 further comprising code that, upon receipt of a handoff request from said radio access network, code causes said processor to transfer responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).

Art Unit: 2681

Regarding claim 11, Agrawal discloses the computer program product of claim 9, wherein said code that causes said processor to exchange call control information comprises code that exchanges call control information via an IP network (col. 18, lines 37-55).

Regarding claim 12, Agrawal discloses for use in a data communication network for supporting mobile users, a computer program product for operating a call agent (col. 10, lines 7-62; figure 6), said product comprising code that causes a processor to exchange call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, lines 19-41); code that causes said processor to maintain call state information for said mobile station (col. 8, lines 41-50) and inherently computer-readable storage medium that stores the code (figure 6).

Regarding claim 13, Agrawal discloses the product of claim 12 further comprising: code that upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, causes said processor to exchange call control information with said second mobile control function; and code that causes said processor to continue to maintain call state information for said mobile station while said second mobile control function maintains connection state information for said mobile station (col. 18, lines 37-55).

Regarding claim 14, Agrawal discloses the product of claim 12 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Art Unit: 2681

Regarding claim 15, Agrawal discloses the product of claim 12 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 16, Agrawal discloses the product of claim 12 wherein said code that causes said processor to exchange call control information comprises code that causes said processor to exchange call control information via an IP network (col. 18, lines 37-55).

Regarding claim 17, Agrawal discloses for use in a data communication network for supporting mobile users, an apparatus for operating a mobile control function, said method comprising: a processor that executes software; and a computer-readable storage medium that stores said software, said software comprising (col. 10, lines 1-62; figure 6): code that causes said processor to exchange information with a mobile station via a radio access network according to a radio access network protocol (col. 5, lines 40-55, col. 7, lines 19-41); code that causes said processor to exchange call control information with a call agent associated with a call of said mobile station (col. 7, line 42-col. 8, line 40); and code that causes said processor to maintain connection state information for said mobile station while said mobile station is handled via said radio access network (col. 1, lines 41-50).

Regarding claim 18, Agrawal discloses the apparatus of claim 17 wherein said software further comprises: code that, upon receipt of a handoff request from said radio access network, that causes said processor to transfer responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).

Art Unit: 2681

Regarding claim 19, Agrawal discloses the apparatus of claim 17 wherein said code that exchanges call control information comprises code that exchanges call control information via an IP network (col. 8, lines 37-55).

Regarding claim 20, Agrawal discloses for use in a data communication network for supporting mobile users, apparatus for operating a call agent, said apparatus comprising: a processor that executes software; a computer-readable storage medium that stores said software, said software comprising (col. 10, lines 1-62; figure 6): code that causes said processor to exchange call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, line 19-col. 8, line 40); and code that causes said processor to maintain call state information for said mobile station (col. 8, lines 41-50).

Regarding claim 21, Agrawal discloses the apparatus of claim 20 wherein said software further comprises: code that upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, causes said processor to exchange call control information with said second mobile control function; and code that causes said processor to continue to maintain call state information for said mobile station while said second mobile control function maintains connection state information for said mobile station (col. 18, lines 37-55).

Art Unit: 2681

Regarding claim 22, Agrawal discloses the apparatus of claim 20 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Regarding claim 23, Agrawal discloses the apparatus of claim 20 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 24, Agrawal discloses the apparatus of claim 20 wherein said code that exchanges call control information comprises code that exchanges call control information via an IP network (col. 18, lines 37-55).

Regarding claim 25, Agrawal discloses in a data communication network for supporting mobile users, apparatus for operating a mobile control function, said apparatus comprising: means for exchanging information with a mobile station via a radio access network according to a radio access network protocol (col. 5, lines 40-55, col. 7, lines 19-41); means for exchanging call control information with a call agent associated with a call of said mobile station (col. 7, line 42-col. 8, line 40); and means for maintaining connection state information for said mobile station while said mobile station is handled via said radio access network (col. 8, lines 41-50).

Regarding claim 26, Agrawal discloses the apparatus of claim 25 further comprising: means for, upon receipt of a handoff request from said radio access network, transferring responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).



Art Unit: 2681

Regarding claim 27, Agrawal discloses the apparatus of claim 25 wherein said means for exchanging call control information comprises means for exchanging call control information via an IP network (col. 18, lines 37-55).

Regarding claim 28, Agrawal discloses in a data communication network for supporting mobile users, apparatus for operating a call agent, said apparatus comprising: means for exchanging call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, lines 19-41); and means for maintaining call state information for said mobile station (col. 8, lines 41-50).

Regarding claim 29, Agrawal discloses the apparatus of claim 28 further comprising: means for, upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, exchanging call control information with said second mobile control function; and means for continuing to maintain call state information for said mobile station while said second mobile control function maintains connection state information for said mobile station (col. 18, lines 37-55).

Regarding claim 30, Agrawal discloses the apparatus of claim 28 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Art Unit: 2681

Regarding claim 31, Agrawal discloses the apparatus of claim 28 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 32, Agrawal discloses the apparatus of claim 28 wherein said means for exchanging call control information comprises means for exchanging call control information via an IP network (col. 18, lines 37-55).

### *Conclusion*

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Singhal et al, U.S. Patent No. 6,633,761, discloses enabling seamless user mobility in a short-range wireless networking environment.

Dolan, U.S. Patent No. 6,628,632, discloses a method an apparatus for permitting direct handoff between base stations in a wireless network.

Sladek et al, U.S. Patent No. 6,622,016, discloses a system for controlled provisioning of telecommunications services.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Davis whose telephone number is (703) 306-5837. The

Art Unit: 2681

examiner can normally be reached on Monday-Thursday from 6:45 am to 3:15 pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Sinh Tran, can be reached on (703) 305-4040.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC2600 Customer Service at (703) 306-0377.

**Any response to this communication should be mailed to:**

Commissioner of Patents and Trademarks

Washington, DC 20231

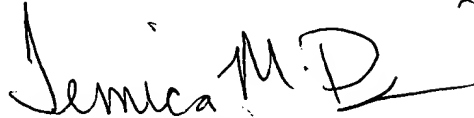
**Or faxed to:**

(703) 872-9314 (for any communications intended for entry).

*Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).*

TMD

October 14, 2003

  
**TEMICA M. DAVIS**  
**PATENT EXAMINER**